

Directions: Make a new notebook and set it up with the formatting below. The correct format/style is part of your grade on the quiz. Do the activities and answer the questions in the appropriate spaces below. Show all input and output.

Quiz #2

Your Name

Part 1: Numbers and Roots

Generate a random integer less than 500.

Determine whether it is prime or composite.

Find its prime factors.

What is the square root of the number?

What is the cube root of the number?

You do not need to write a paragraph for this. The input and output is sufficient.

Part 2: Probability

Input the following code:

```
spinner = {r, r, g, g, g, b}
```

Simulate spinning the spinner 50 times by selecting random values from the spinner.

- What is the actual probability of spinning a "g"?
- What is your experimental probability of spinning a "g"?

Show all of the input and output you used to run the simulation and answer the questions.

In a text cell, write your answers for (a) and (b) in two sentences.

Part 3: Writing assignment

In a text cell. Write a few sentences about what you like about Math X so far and any ideas you have to improve the class for next semester.